

Appl. No. 10/051,401  
Atty. Docket No. 8401  
Supp. Amdt. Dated July 14, 2006  
Reply to Office Communication of May 31, 2006  
Customer No. 27752

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### AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

#### Listing of Claims:

1. (Canceled).
2. (Canceled).
3. (Canceled).
4. (Canceled).
5. (Canceled).
6. (Canceled).
7. (Canceled).
8. (Previously presented) An anhydrous treatment composition according to Claim 33, wherein the reactive agent further comprises a protecting group that is selected from the group consisting of heterocyclic protecting groups,  $sp^2$  aliphatic trigonal carbon protecting groups,  $sp^3$  carbon electrophilic protecting groups, phosphorus protecting groups, metal based protecting groups, non-metal and metalloid based protecting groups other than phosphorus, energy-sensitive protecting groups and mixtures thereof.
9. (Previously presented) An anhydrous treatment composition according to Claim 33, wherein the water-miscible solvent has a Vaughan Solubility Parameter of from about  $8.0 \text{ (cal/cm}^3)^{0.5}$  to about  $17.0 \text{ (cal/cm}^3)^{0.5}$ .

Page 2 of 12

Appl. No. 10/051,401  
Attr. Docket No. 8401  
Supp. Amdt. Dated July 14, 2006  
Reply to Office Communication of May 31, 2006  
Customer No. 27752

10. (Previously presented) An anhydrous treatment composition according to Claim 33, wherein the water-miscible solvent is selected from the group consisting of ethyl formate, dimethyl isosorbide, acetylacetone, 2-butanone, acetone, methyl acetate, ethyl acetate, propyl acetate, ethoxyethanol, dipropylene glycol monomethyl ether, butyl lactate, t-butyl alcohol, phenyl acetate, 2-propoxyethanol, 2-isopropoxyethanol, methoxypropanol, isopropyl lactate, hexyl alcohol, butoxyethanol, tripropylene glycol (PPG-3), triacetin, methoxyethanol, isopropyl alcohol, PEG-8, methyl lactate, PEG-6, PEG-5, PEG-4, N-methylpyrrolidone, propyl alcohol, dipropylene glycol (PPG-2), acetonitrile, phenoxyethanol, triethyleneglycol, hexylene glycol, ethyl alcohol,  $\gamma$ -butyrolactone, butylene glycol, propylene carbonate, dimethyl sulfoxide, diethylene glycol, ethoxydiglycol, propylene glycol, pyrrolidone, pyrrolidone-2, methyl alcohol, ethylene carbonate, ethylene glycol, acetamide, glycerin, butyl carbitol, 1,3-dioxolane, dimethoxymethane, 1,2-hexanediol, dipropylene glycol butyl ether, dipropylene glycol t-butyl ether, propionaldehyde, diethoxymethane, glycerol formal,  $\gamma$ -valerolactone,  $\beta$ -methyl- $\gamma$ -butyrolactone, and butyl acetate, ethanol, isopropyl alcohol, and mixtures thereof.
11. (Previously presented) An anhydrous treatment according to Claim 10, wherein the water-miscible solvent is selected from the group consisting of N-methylpyrrolidinone, propylene carbonate,  $\gamma$ -butyrolactone,  $\gamma$ -valerolactone, propylene glycol, dipropylene glycol, ethoxydiglycol, ethoxyethanol, dimethoxymethane, dimethyl isosorbide, butyl lactate, and mixtures thereof.
- [11.]] 12. (Withdrawn-currently amended) A composition comprising
- a) greater than about 25% water-miscible solvent,
  - b) from about 0.5% to about 25% surfactant, a
  - c) water

Appl. No. 10/051,401  
Atty. Docket No. 8401  
Supp. Amdt. Dated July 14, 2006  
Reply to Office Communication of May 31, 2006  
Customer No. 27752

wherein the composition is thickened by high solvent containing lamellar liquid crystals.

[[12.]] 13. (Withdrawn-currently amended) A composition according to Claim [[11]] 12 wherein the surfactant has a Critical Packing Factor greater than about 0.5 and less than or equal to about 10.

[[13.]] 14. (Withdrawn-currently amended) A composition according to Claim [[12]] 13 wherein the surfactant is selected from the group consisting of fatty alcohols having a chain length of from about 14 to about 22; fatty acids having a chain length of from about 14 to about 22; condensation products of C16 to C22 aliphatic alcohols with alkylene oxides; mono- and di-alkyl alkanolamides with carbon chain lengths of from about 12 to about 22; long chain esters of polyols and sugars; polyethoxylated and/or polypropoxylated alkylphenols; polyhydroxylated polyethers of fatty alcohols, fatty acid alkanolamides, and amine oxides; condensation products of ethylene oxide with long chain amids; quaternary ammonium halides in which the alkyl group has from about 12 to about 22 carbon groups; alkyl sulfonates, alkyl ether sulfonates, alkylaryl sulfonates, alkanoyl isethionates, alkyl succinates, alkyl sulfosuccinates, N-alkoyl sarcosinates, alkyl phosphates, alkyl ether phosphates, alkyl ether carboxylates, and alpha-olefin sulfonates; sodium, magnesium, ammonium and mono-, di- and triethanolamine salts of alkyl sulfonates, alkyl ether sulfonates, alkylaryl sulfonates, alkanoyl isethionates, alkyl succinates, alkyl sulfosuccinates, N-alkoyl sarcosinates, alkyl phosphates, alkyl ether phosphates, alkyl ether carboxylates, and alpha-olefin sulfonates, gemini surfactants; lipid surfactants; and mixtures thereof.

[[14.]] 15. (Withdrawn-currently amended) A composition according to Claim [[13]] 14 wherein the surfactant is selected from the group consisting of cetyltrimethylammonium chloride, cetyltrimethylammonium bromide, cetearyl phosphate, phosphatidyl choline, serine, choline, ethanolamine, palmitic acid,

Appl. No. 10/051,401  
Atty. Docket No. 8401  
Supp. Amdt. Dated July 14, 2006  
Reply to Office Communication of May 31, 2006  
Customer No. 27752

myristic acid, oleic acid, stearic acid, arachidonic acid, linolenic acid, linoleic acid and arachidic acid, cetearyl alcohol, cetyl alcohol, stearyl alcohol, arachidyl alcohol, oleyl alcohol, ceteareth ethoxylates with between 10 and ethylene oxide groups, ceteth ethoxylates with between 10 and 30 ethylene oxide groups, steareth ethoxylates with between 1- and 30 ethylates, and mixtures thereof.

[[15.]] 16. (Withdrawn-currently amended) A system for treating amino-acid based substrates comprising the anhydrous treatment composition of Claim 1 and a separately packaged aqueous composition.

[[16.]] 17. (Withdrawn-currently amended) A system according to Claim [[15]] 16 wherein the aqueous composition further comprises a surfactant.

[[17.]] 18. (Withdrawn-currently amended) A system according to Claim [[15]] 16 wherein the anhydrous composition further comprises a surfactant.

[[18.]] 19. (Withdrawn-currently amended) A system according to Claim [[17]] 18 wherein the surfactant has a Critical Packing Factor greater than about 0.5 and less than or equal to about 10.

[[19.]] 20. (Withdrawn-currently amended) A system according to Claim [[18]] 19 wherein the surfactant is selected from the group consisting of fatty alcohols having a chain length of from about 14 to about 22; fatty acids having a chain length of from about 14 to about 22; condensation products of C16 to C22 aliphatic alcohols with alkylene oxides; mono- and di-alkyl alkanolamides with carbon chain lengths of from about 12 to about 22; long chain esters of polyols and sugars; polyethoxylated and/or polypropoxylated alkylphenols; polyhydroxylated polyethers of fatty alcohols, fatty acid alkanolamides, and amine oxides; condensation products of ethylene oxide with long chain amids; quaternary ammonium halides in which the alkyl group has from about 12 to about 22 carbon

Appl. No. 10/051,401  
Atty. Docket No. 8401  
Supp. Amdt. Dated July 14, 2006  
Reply to Office Communication of May 31, 2006  
Customer No. 27752

groups; alkyl sulfonates, alkyl ether sulfonates, alkylaryl sulfonates, alkanoyl isethionates, alkyl succinates, alkyl sulfosuccinates, N-alkoyl sarcosinates, alkyl phosphates, alkyl ether phosphates, alkyl ether carboxylates, and alpha-olefin sulfonates; sodium, magnesium, ammonium and mono-, di- and triethanolamine salts of alkyl sulfonates, alkyl ether sulfonates, alkylaryl sulfonates, alkanoyl isethionates, alkyl succinates, alkyl sulfosuccinates, N-alkoyl sarcosinates, alkyl phosphates, alkyl ether phosphates, alkyl ether carboxylates, and alpha-olefin sulfonates, gemini surfactants; lipid surfactants; and mixtures thereof.

[[20.]] 21. (Withdrawn-currently amended) An article comprising:

- a) a package having a first chamber and a second chamber, each chamber having a dispensing orifice,
- b) an anhydrous treatment composition contained in the first chamber, and
- c) an aqueous composition contained in the second chamber.

[[21.]] 22. (Withdrawn-currently amended) A method for treating amino-acid based substrates comprising dampening of the amino-acid based substrate with water and applying a safe and effective amount of the treatment composition of Claim 1 to the substrate.

[[22.]] 23. (Withdrawn-currently amended) A method for treating hair comprising dampening of the hair with water and applying a safe and effective amount of the treatment composition of Claim 1 to the substrate.

[[23.]] 24. (Withdrawn-currently amended) A method for treating amino-acid based substrates comprising the mixing of the anhydrous treatment composition of Claim 1 with water and applying a safe and effective amount of the composition-water mixture to the substrate.

Appl. No. 10/051,401  
Atty. Docket No. 8401  
Supp. Amdt. Dated July 14, 2006  
Reply to Office Communication of May 31, 2006  
Customer No. 27752

[[24.]] 25. (Withdrawn-currently amended) A method for treating hair comprising the mixing of the anhydrous treatment composition of Claim 1 with water and applying a safe and effective amount of the composition-water mixture to the hair.

[[25.]] 26. (Withdrawn-currently amended) A method for treating amino-acid based substrates comprising the mixing of the anhydrous treatment composition of Claim 1 with water and applying a safe and effective amount of the composition-water mixture to the substrate.

[[26.]] 27. (Withdrawn-currently amended) A method for treating hair comprising the mixing of the anhydrous treatment composition of Claim 1 with water and applying a safe and effective amount of the composition-water mixture to the hair.

[[27.]] 28. (Withdrawn-currently amended) A method for treating amino-acid based substrates comprising the simultaneous dispensing the anhydrous treatment composition and aqueous composition of the system of Claim [[15]] 16, mixing the compositions, and applying the resulting mixture to hair

[[28.]] 29. (Withdrawn-currently amended) A method for treating hair comprising the simultaneous dispensing the anhydrous treatment composition and aqueous composition of the system of Claim [[15]] 16, mixing the compositions, and applying the resulting mixture to hair

[[29.]] 30. (Withdrawn-currently amended) A method of thickening compositions containing greater than 25% water-miscible solvent comprising adding water and adding a solvent to form high solvent containing lamellar liquid crystals.

31. (Canceled).

32. (Canceled).

Appl. No. 10/051,401  
Art. Docket No. 8401  
Supp. Amdt. Dated July 14, 2006  
Reply to Office Communication of May 31, 2006  
Customer No. 27752

33. (Previously presented) An anhydrous treatment composition, comprising:

a) a reactive agent comprising:

i) a reactive group selected from the group consisting of halotriazines, haloquinoxalines, halopyrimidines, vinylsulfones,  $\beta$ -haloethylsulfones,  $\beta$ -sulfatoethylsulfones, acrylates, methacrylates, acrylamides, methacrylamides, maleimides, epoxides, acylhalides, esters, carbamates, dithiocarboxylic acid esters, alkoxysilanes, thiosulfates, anhydrides, urea derivatives, isothiocyanates, isocyanates, lactones, thiosulfates, isothiuroniums, azalactones, thiols, thiolates, thiols or thiolates containing quaternary salts, thioalkyl esters, thioalkylamides, thiol or thiolate derivatives of cysteamine, and mixtures thereof;

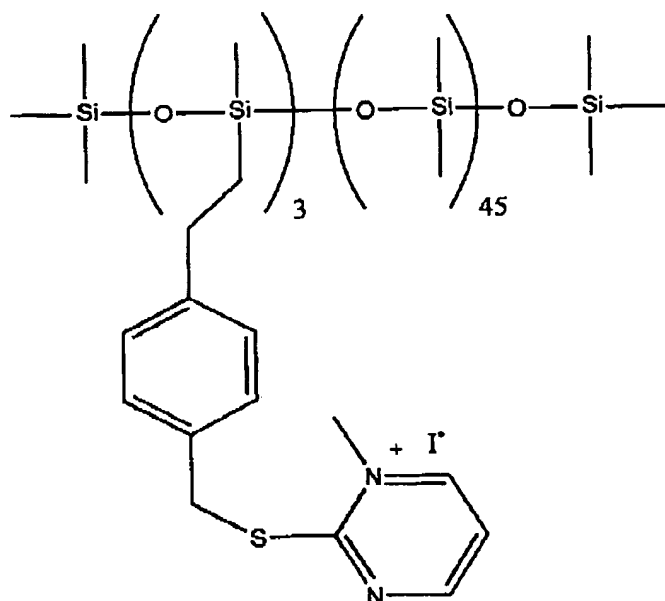
ii) a cosmetically active functional group selected from the group consisting of a silicone hair conditioning cosmetic functional group, a hydrocarbon conditioning cosmetic functional group, and mixtures thereof; and

b) a water miscible solvent,

wherein the anhydrous treatment composition is only one part of a final two-part composition that also includes an aqueous composition to be mixed with the anhydrous treatment composition prior to application to an amino-acid substrate.

34. (Previously presented) An anhydrous treatment composition according to Claim 33, wherein the reactive agent is in accordance with the following structure:

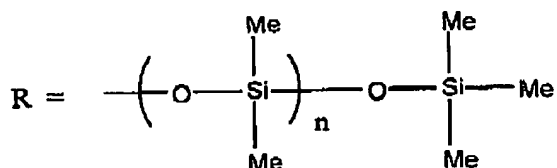
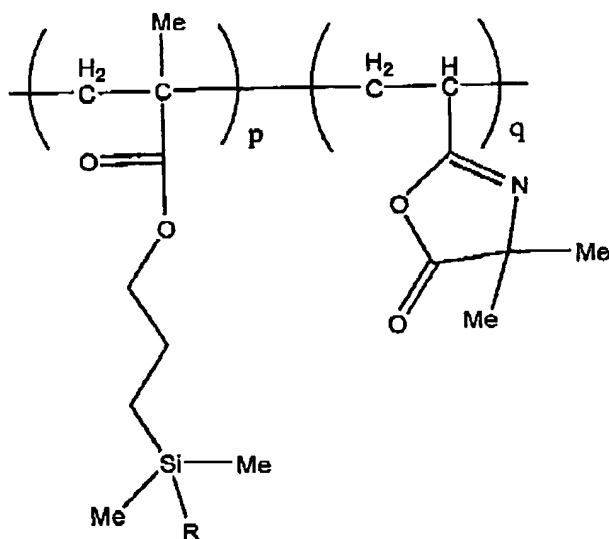
Appl. No. 10/051,401  
Atty. Docket No. 8401  
Supp. Amdt. Dated July 14, 2006  
Reply to Office Communication of May 31, 2006  
Customer No. 27752



35. (Previously presented) An anhydrous treatment composition according to Claim 33, wherein the reactive agent is in accordance with the following structure:

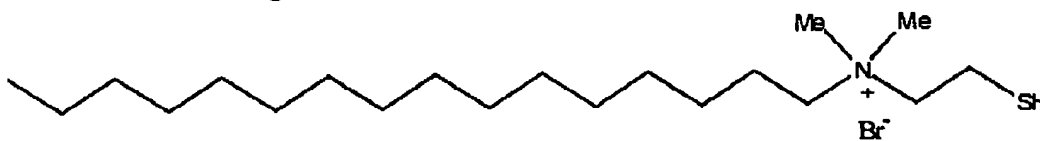


Appl. No. 10/051,401  
 Atty. Docket No. 8401  
 Supp. Amdt. Dated July 14, 2006  
 Reply to Office Communication of May 31, 2006  
 Customer No. 27752



wherein  $p = 1$ ,  $q = 14.6$  and  $n = 60$ .

36. (Previously presented) An anhydrous treatment composition according to Claim 33, wherein the reactive agent is in accordance with the following structure:



37. (Previously presented) An anhydrous treatment composition according to Claim 33, wherein the anhydrous treatment composition is present in a final two-part composition in an amount from about 0.01% to about 10% by weight of the final two-part composition.

Appl. No. 10/051,401  
Atty. Docket No. 8401  
Supp. Amdt. Dated July 14, 2006  
Reply to Office Communication of May 31, 2006  
Customer No. 27752

38. (Previously presented) An anhydrous treatment composition according to Claim 33, wherein the anhydrous treatment composition is present in a final two-part composition in an amount from about 0.5% to about 5% by weight of the final two-part composition.

39. (Previously presented) An anhydrous treatment composition according to Claim 33, wherein the anhydrous treatment composition is present in a final two-part composition in an amount from about 0.25% to about 2% by weight of the final two-part composition.

40. (Previously presented) An anhydrous treatment composition according to Claim 33, wherein the water miscible solvent is present in a final two-part composition in an amount from about 25% to about 95% by weight of the final two-part composition.

41. (Previously presented) An anhydrous treatment composition according to Claim 33, wherein the water miscible solvent is present in a final two-part composition in an amount from about 30% to about 90% by weight of the final two-part composition.

42. (Previously presented) An anhydrous treatment composition according to Claim 33, wherein the water miscible solvent is present in a final two-part composition in an amount from about 50% to about 85% by weight of the final two-part composition.